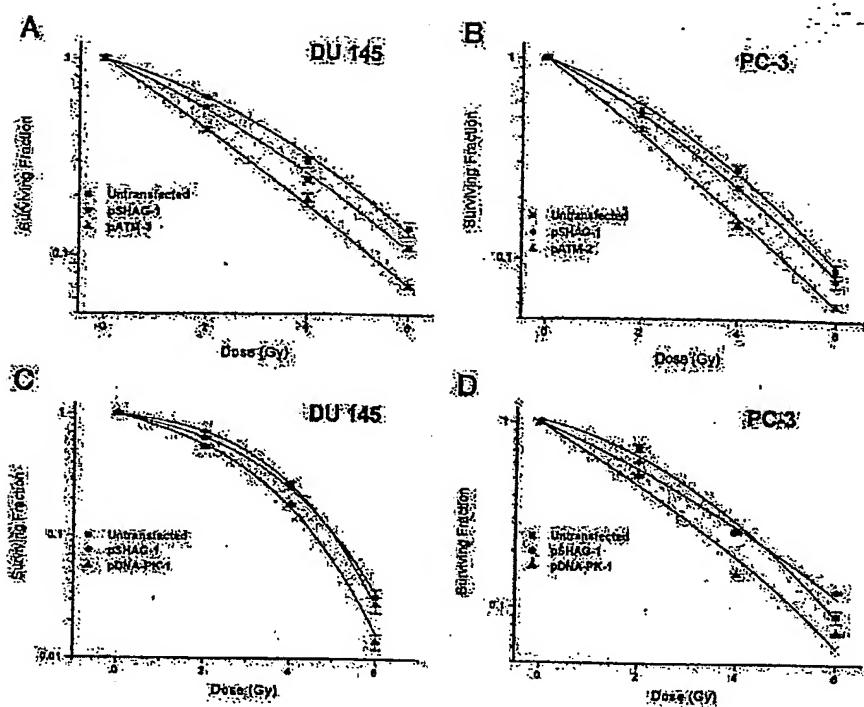


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Fig 2.



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Fig. 3

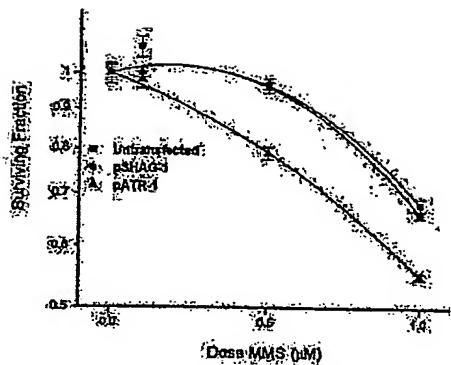


Fig. 4

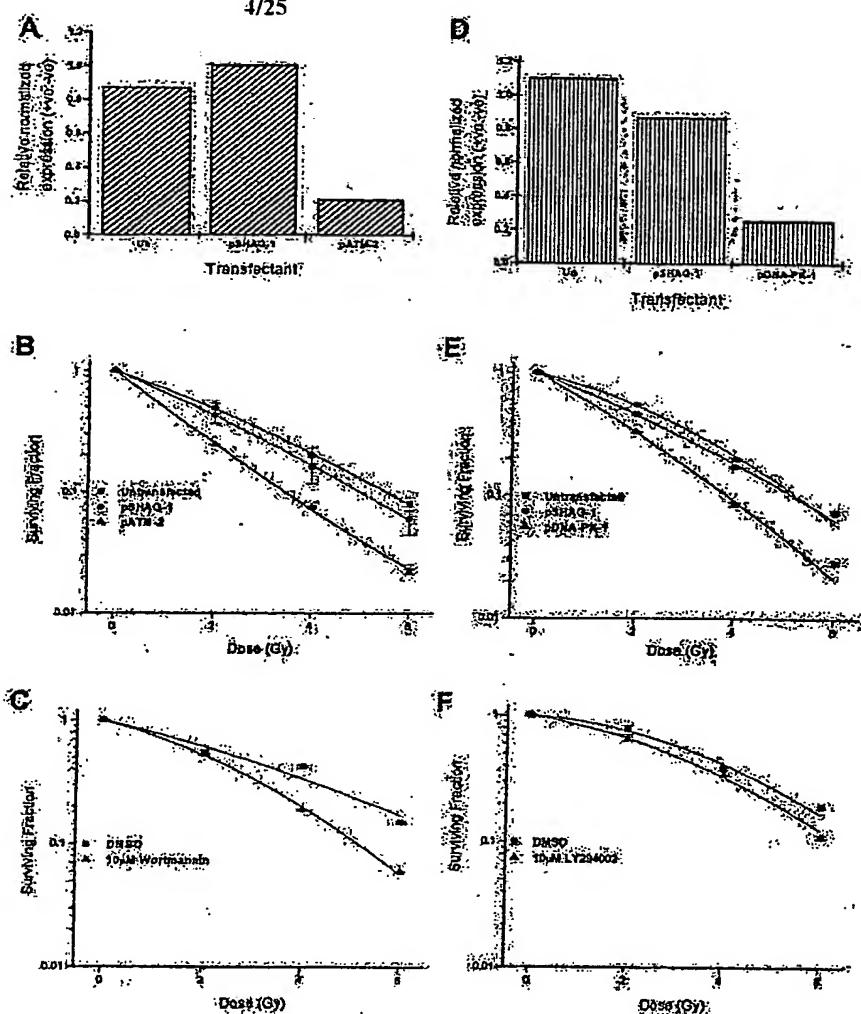


Fig. 5 Ad5 siRNA (ERASE) vectors

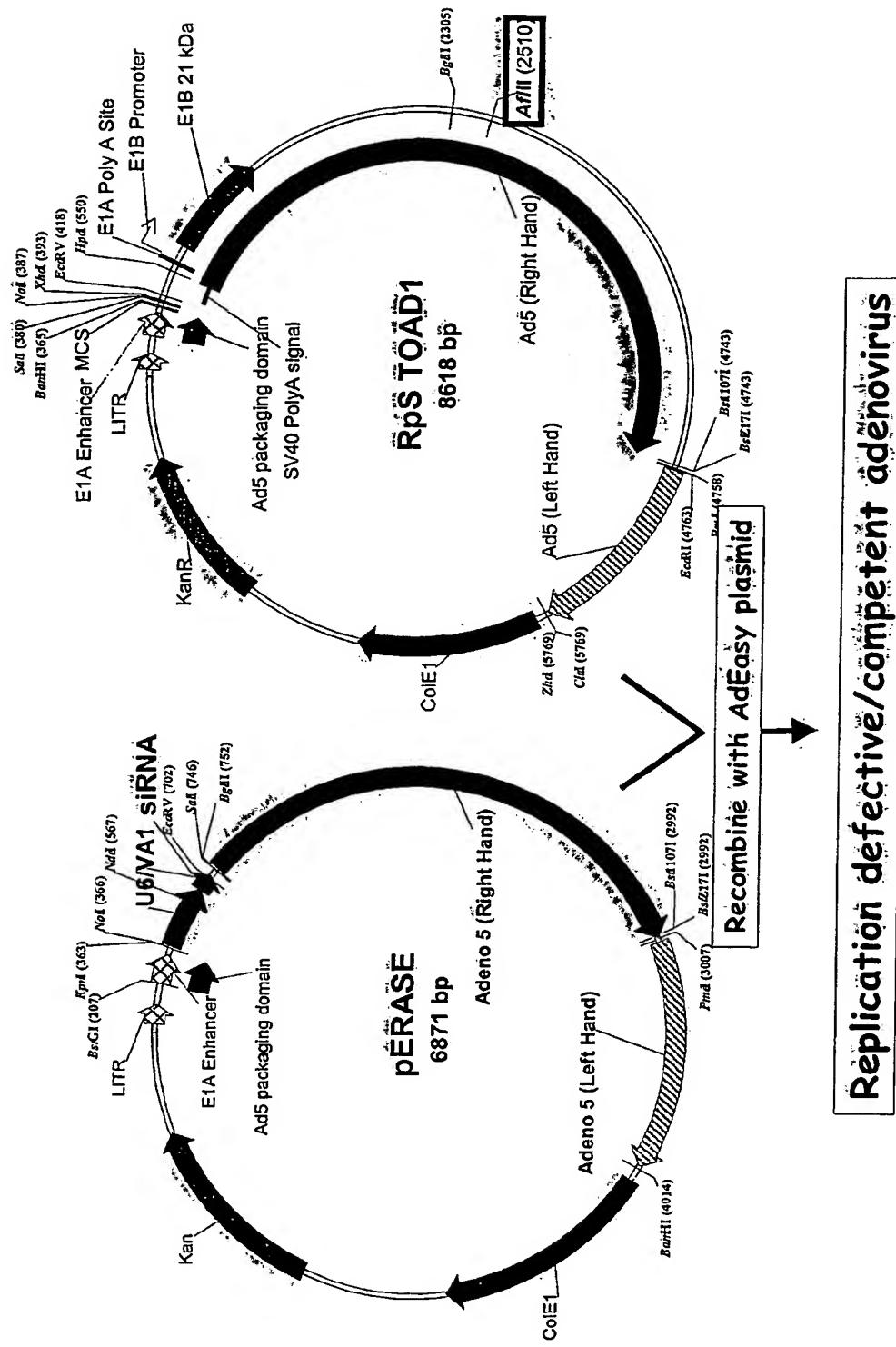


Fig. 6

An alternative pol III promoter (synthetic VA1)



Fig. 7

Effectiveness of VA1 promoter in PC-3 Luc cells

Luciferase Expression in PC-3 Luc cells 24-72hrs post-transfection

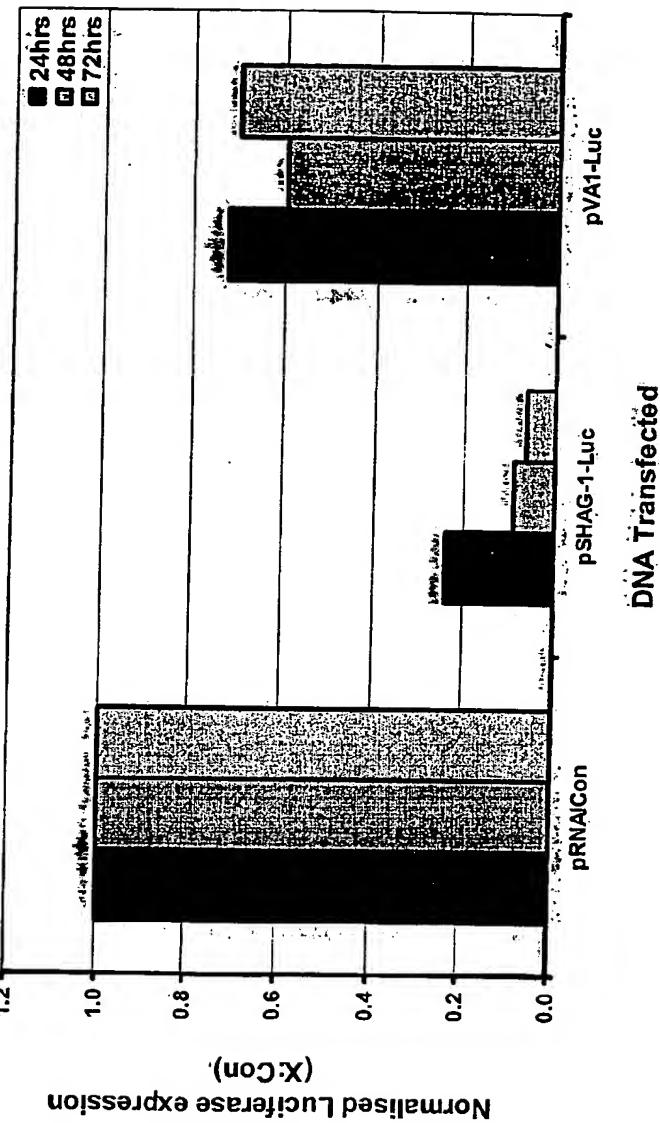


Fig. 8

Effectiveness of VAI1 promoter in 293 Luc cells

Luciferase Expression in 293 Luc cells 24-48hrs post-transfection

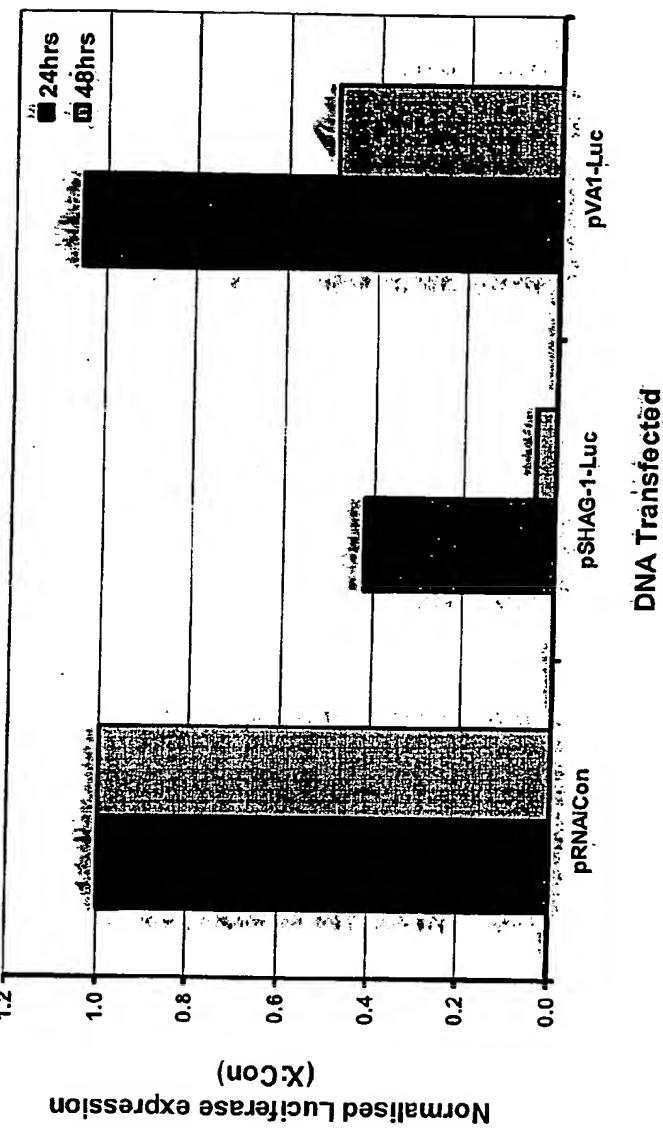
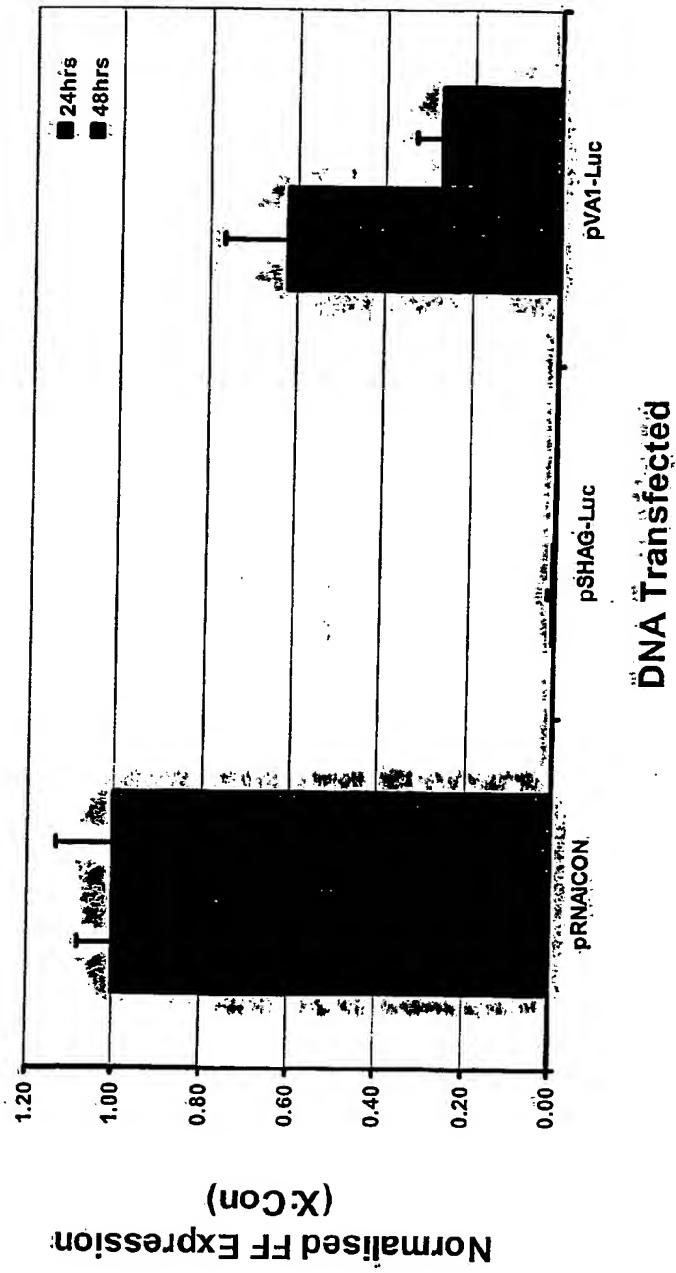


Fig. 9

Effectiveness of VAI1 promoter in DU 145 cells: co-transfection experiments

Fire Fly Luciferase Expression



V_A1 versus U₆-mediated down-regulation of DNA-PK in DU 145 cells

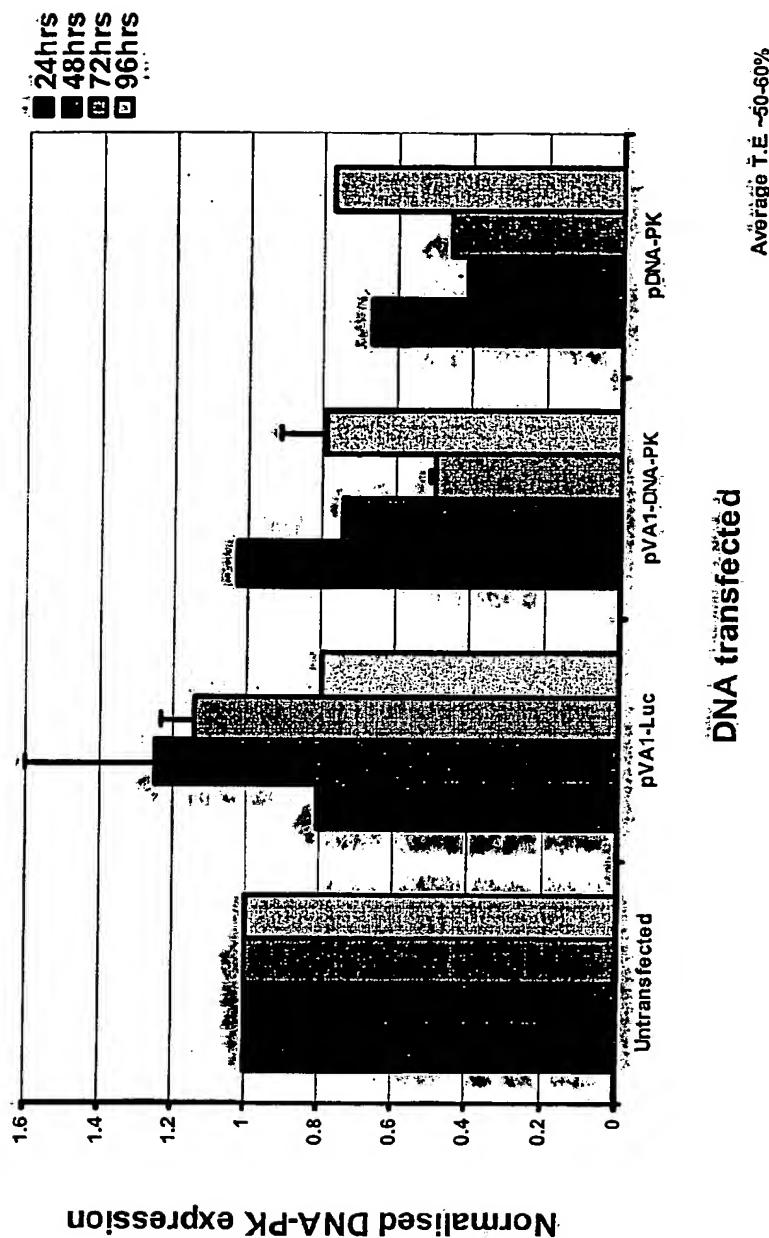


Fig. 10

Fig. 11

**V_A1 versus U6-mediated down-regulation
of DNA-PK in DU 145 cells**

DNA-PK expression 72hrs post-transfection

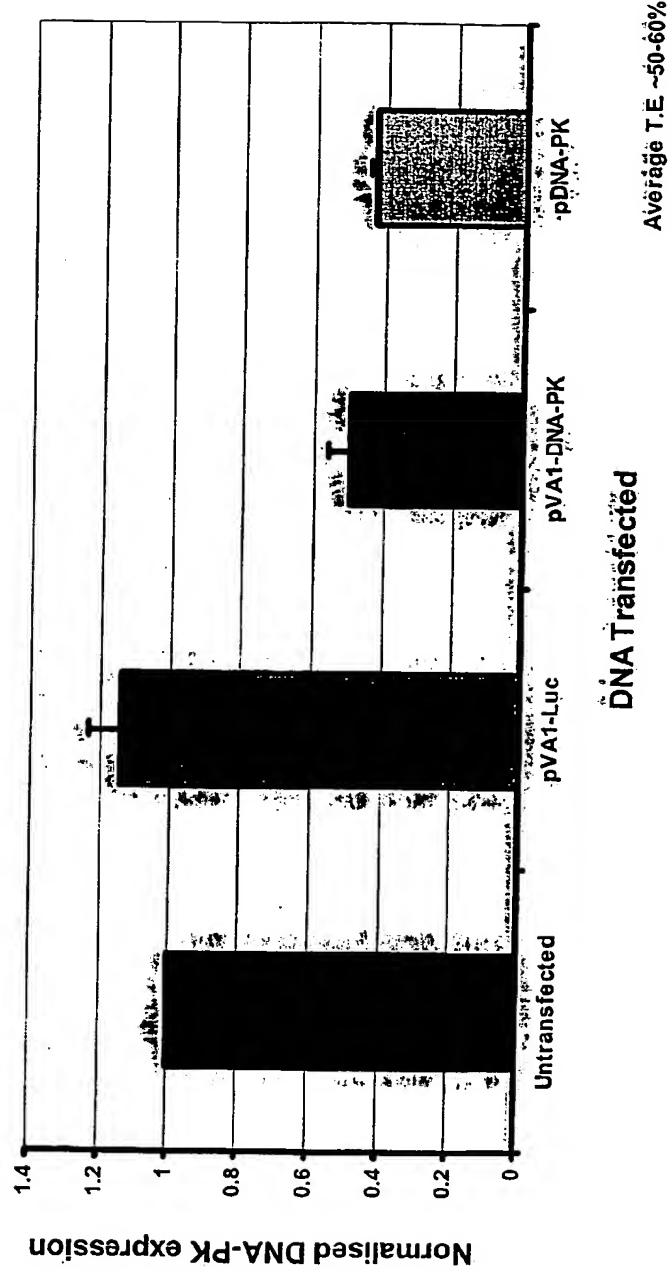


Fig. 12

WA1-mediated down-regulation of DNA-PK in DU 145 cells (72 hrs post-transfection)

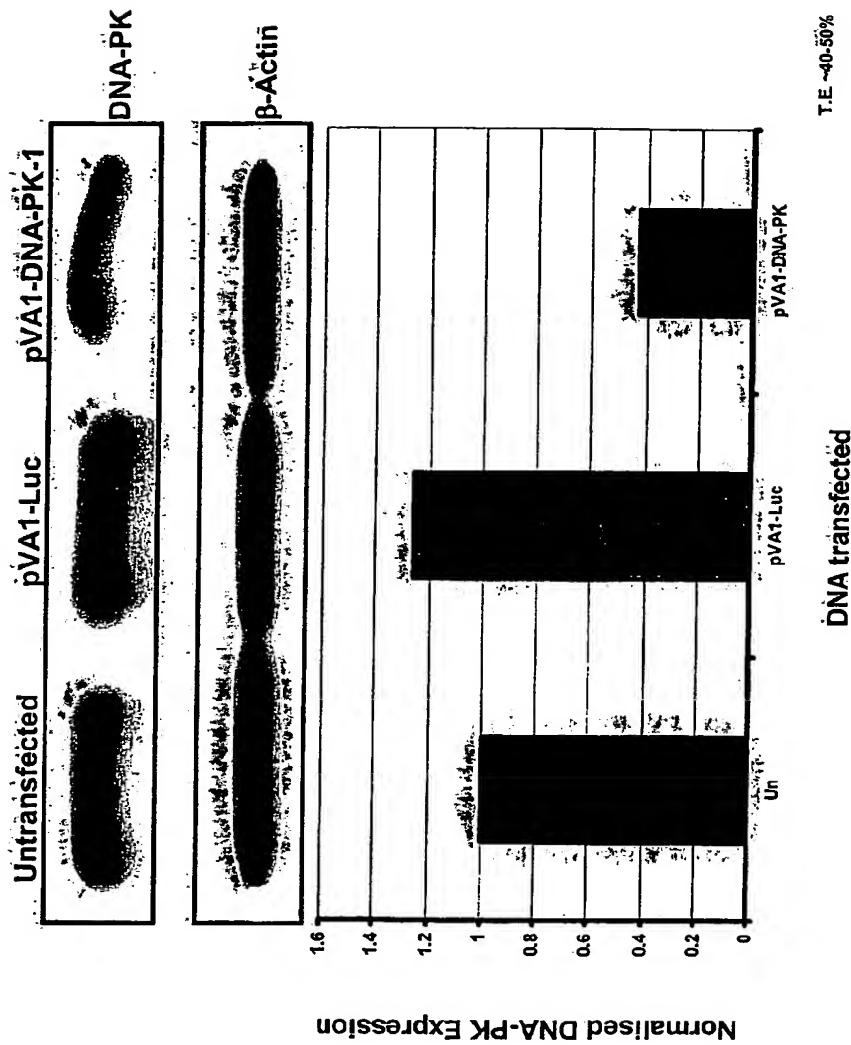
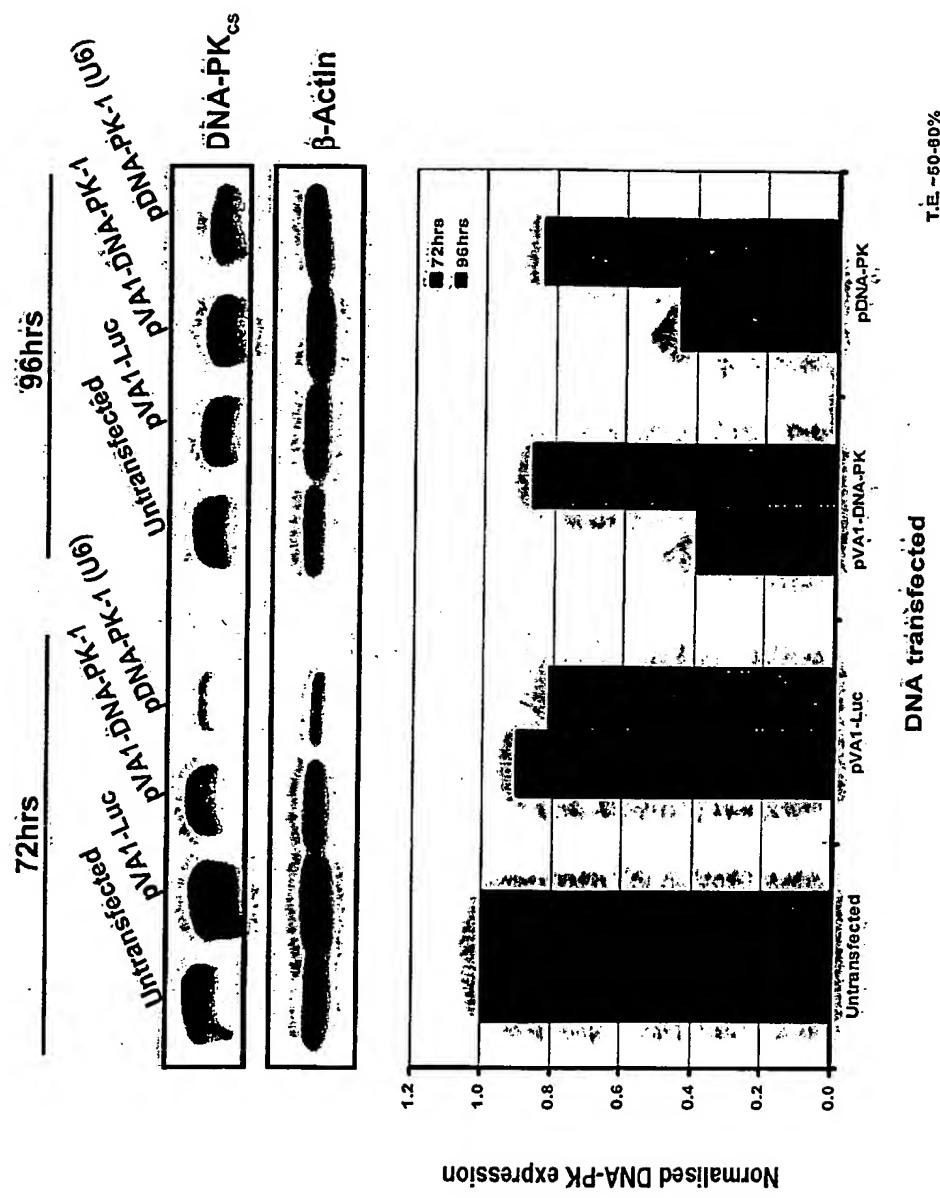


Fig. 13

VA1 versus U6-mediated down-regulation of DNA-PK in DU 145 cells



ATM-1 (5'- 3')**Oligo-A**

TAGCTCTATCATGTTCTAGTTGACGGCAGAACGCTTGTGCCGTCGACTAGGACATGGTAGAGTTACAGTTTTT

Oligo-B

GATCAAAAAACTGTAACCTTACCATGTCCTAGTCGACGGCACAAGCTTGTGCCGTCAACTAGAACATGATAGAGCTACG

Target sequence:-

TGCCGTCAACTAGAACATGATAGAGCTACAG (223-253, ATG = 190)

G/C content = 45%

Fig. 14

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ATM-2 (5'- 3')

Oligo-A

CCTGGAGGCTTGTGTTGAGGCTGATACAGAAGCTTGTATCAGCCTCAGCATAAGCCTCCGGGTAGTTTTT

Oligo-B

GATCAAAAAACTACCCGGAGGCTTATGCTGAGGCTGATACACAAGCTCTGTATCAGCCTAACACAAGCCTCCAGGCG

Target sequence:-

TGTATCAGCCTAACACAAGCCTCCAGGCAG (432-462, ATG = 190)

G/C content = 55%

Fig. 15

ATM-3 (5'- 3')**Oligo-A**

TAGTATGTTGCTACAATCAGCTCCGTAAGAACGCTTACGGAGCTGATTGTGGCAGCTATTACTCTTTTT

Oligo-B

GATCAAAAAAGAGTAATACGTCGCCACAATCAGCTCCGTAACAAGCTTACGGAGCTGATTGTAGAACATACTACG

Target sequence:-

TTACGGAGCTGATTGTAGAACATACTACTC (597-627, ATG = 190)

G/C content = 42%

Fig. 16

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ATR-1 (5'- 3')

Oligo-A

TATTATATTCCCTCTGGTGTGGCACTGCCGAAGCTTGGGCAGTGTACACTAGAGGGATATAGTACAGTTTTT

Oligo-B

GATCAAAAAACTGTACTATCCCTCTAGTGTGACACTGCCAAGCTTGGCAGTGCCACACCAGAGGAATATAATACG

Target sequence:-

GGCAGTGCCACACCAGAGGAATATAATACG (134-164, ATG = 80)

G/C content = 48%

Fig. 17

ATR-2 (5'- 3')**Oligo-A**

TTGCTGCAATCCGAGAAGTCTCGTTATGAAGCTTGATAATGAGACTTCTGCGGATTGTAGTAATTCTTTTT

Oligo-B

GATCAAAAAAGAATTACTACAATCCGAGAAGTCTCATTATCAAGCTTCATAACGAGACTTCTGCGGATTGCAGCAACG

Target sequence:-

ATAACGAGACTTCTGCGGATTGCAGCAACC (388-418, ATG = 80)

G/C content = 48%

Fig. 18

ATR-3 (5'- 3')**Oligo-A**

CTCATGACCACTGGCCATTCCACAGCATGAAGCTTGTGCTGGAGTGGCCGGTGGTATGAGTCGTTTTT

Oligo-B

GATCAAAAAACGACTCATAACCACCGGCCACTCCACAGCATCAAGCTTCATGCTGGAATGCCAGTGGCATGAGCG

Target sequence:-

ATGCTGTGGAATGCCAGTGGTCATGAGCCG (579-609, ATG = 80)

G/C content = 58%

Fig. 19

DNA-PK-1 (5'- 3')**Oligo-A**

ATGTCTGTAATGCCAGCACCGCGGGCTGAAGCTT GAGCCTCGTGGT GCTGGT ATTACAGATATCTTTTTTT

Oligo-B

GATCAAAAAAAAGATATCTGTAATACCAAGCACCACGAGGCTCAAGCTTCAGCCCCGCGGTGCTGGCATTACAGACATCG

Target sequence:-

AGCCCCCGCGGTGCTGGCATTACAGACATCTT (196-226, ATG = 58)

G/C content = 58%

Fig. 20

DNA-PK-2 (5'- 3')**Oligo-A**

GATGAACCTCACCCAATAATCCTAGGAGGAAGCTTGCTCTAGGATTATTGGGTGGAGTTCGTCTTATTTTTT

Oligo-B

GATCAAAAAATAAGACGAACCTCCACCCAATAATCCTAGAACGCAAGCTTCCTCCTAGGATTATTGGGTGAAGTTCATCCG

Target sequence:-

CTCCTAGGATTATTGGGTGAAGTTCATCCTA (585-616, ATG = 58)

G/C content = 42%

Fig. 21

DNA-PK-3 (5'- 3')**Oligo-A**

TGAAGTTGCACAGAAGTGAGGACAACCCGAAGCTGGGTTGTTCTTACTTCTGTGCAGCTTCATTATTTTT

Oligo-B

GATCAAAAAATAATGAAGCTGCACAGAAGTAAGAACAAACCCCAAGCTTCGGGTTGTCCCTCACTTCTGTGCAACTTCACG

Target sequence:-

GGGTTGCCTCACTTCTGTGCAACTTCACTA (733-763, ATG = 58)

G/C content = 48%

Fig. 22

ATM (5'- 3')

TAGCTCTATCATGTTCTAGTTGACGGCAX, TGCCGTCGACTAGGACATGGTAGAGTTACAGTTTTT

CCTGGAGGCTTGTGTTGAGGCTGATACAX, TGTATCAGCCTCAGCATAAGCCTCCGGTAGTTTTT

TAGTATGTTGCTACAATCAGCTCCGTAAX, TTACGGAGCTGATTGTGGCGACGTATTACTCTTTTT

ATR (5'- 3')

TATTATATTCTCTGGTGTGGCACTGCCX, GGCAGTGTACACTAGAGGGATATAGTACAGTTTTT

TTGCTGCAATCCGCAGAAGTCTCGTTAX, ATAATGAGACTTCTGCGGATTGTAGTAATTCTTTTT

CTCATGACCACTGCCATTCCACAGCATX, ATGCTGTGGAGTGGCCGGTGGTATGAGTCGTTTTT

DNA-PK (5'- 3')

ATGTCTGTAATGCCAGCACCGCGGGGCTX, AGCCTCGTGGTGCTGGTATTACAGATATCTTTTTTT

GATGAACTTACCCAATAATCCTAGGAGX, CTTCTAGGATTATTGGGTGGAGTCGCTTATTTTTT

TGAAGTTGCACAGAAGTGAGGACAACCCX, GGGTTGTTCTTACTTCTGTGCAGCTCATTATTTTT

Fig. 23

Ad5 VA-1 (Top strand) – Accession No. X02996

10555 ctctgg

10561 ccggtcaggc gcgcgcatac gttgacgctc tagaccgtgc aaaaggagag cctgttaagcg

10621 ggcactctt [REDACTED] tggataaaatt cgcaagggtt tcatggcgga cgaccgggtt

10681 [REDACTED] tccgcccgtatccggccg tccgccgtga tccatgcgtt taccggccgc gtg

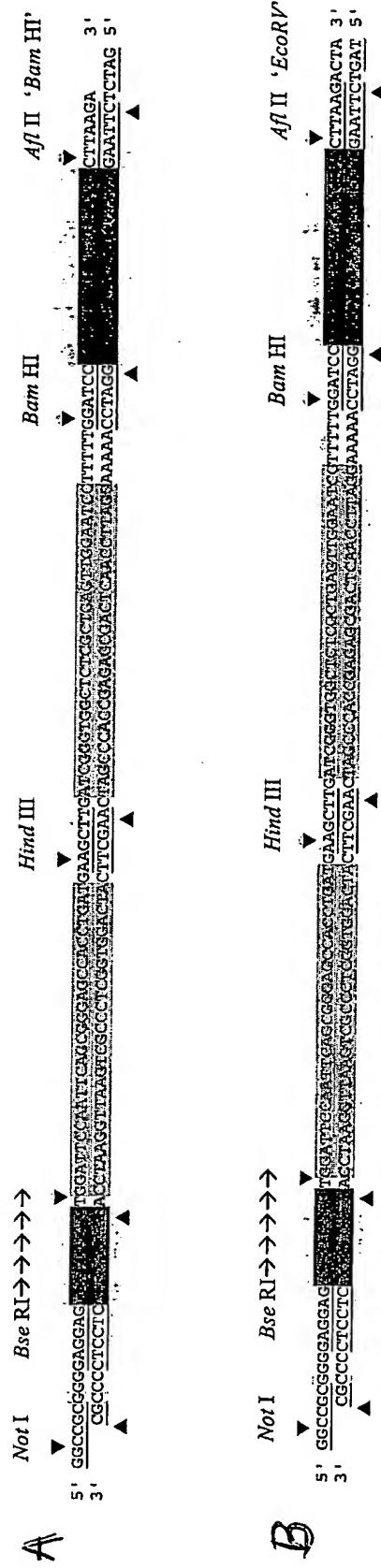
Variable upstream region

+1 start site

[REDACTED]

B-Box

Fig. 24



+1 start site

Luciferase siRNA

1223

Fig. 25

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